4'-0" FLAT

X 63' LENGTH

PLATE

PT. 05 D.B. TANK (VOID)

DRAIN PLUG

BLEEDER PLUG

6"

12"

SKEG

6'-3" P. & S.

A B C D

6'-8"

OFILE

8'-11" 8'-11" 7'-8" 8'-2" 8'-11"

36" TYP.

D.D.

12" TYP.

9'-2"

9'

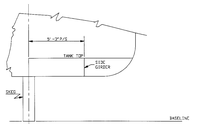
F.W.

SEACHEST

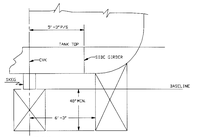
VOID

O.T. O.T. W.T.B. W.T. & N.T. W.T. & N.T.

NOTE:
FRAME SPACING IS 18" THRU-OUT

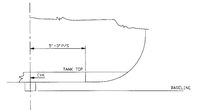


SECTION AT FR. 45

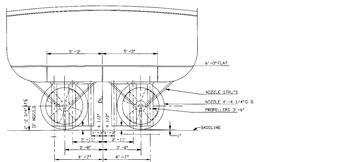


SECTION AT FR. 40

LKG. FWD.



SECTION AT FR. 38



SECTION AT FR. 26

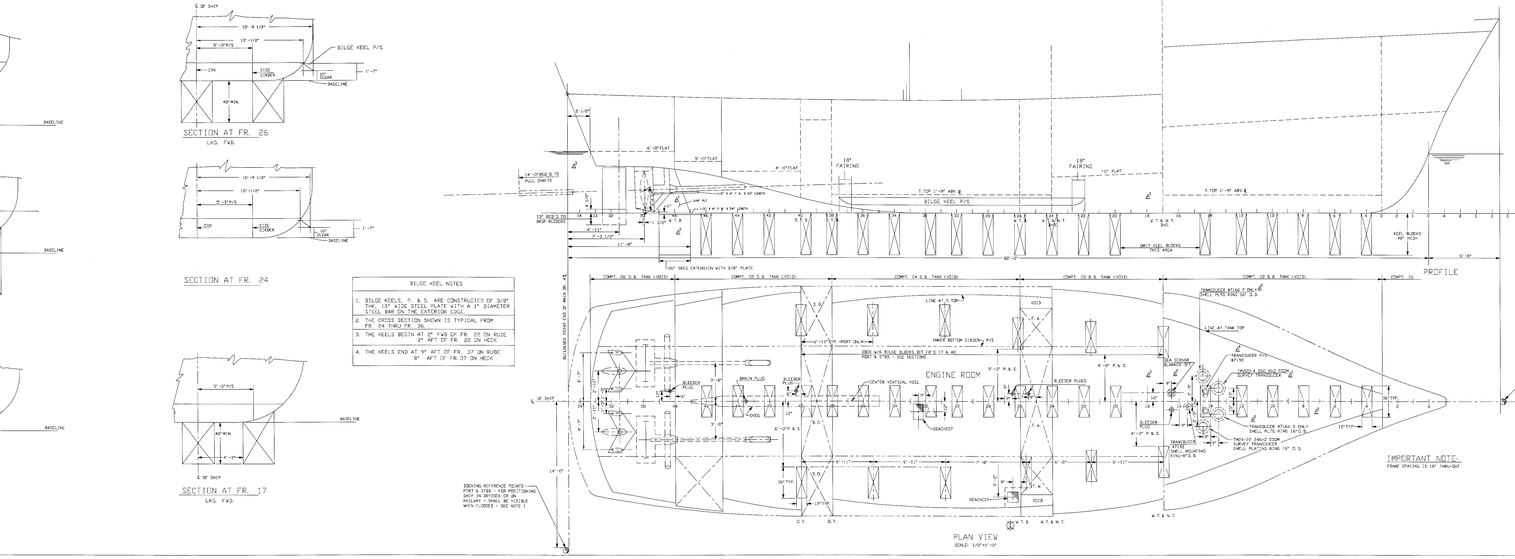
LKG. FWD.

SECTION AT FR. 24

SECTION AT FR. 17

LKG. FWD.

BILGE KEEL NOTES
1. BILGE KEELS, P. & S. ARE CONSTRUCTED OF 3/8" THK. 10" WIDE STEEL PLATE WITH A 1" DIAMETER STEEL BAR ON THE EXTERIOR EDGE.
2. THE CROSS SECTION SHOWN IS TYPICAL FROM FR. 24 THRU FR. 36.
3. THE KEELS BEGIN AT 3" FWD OF FR. 20 ON RUDE & 6" AFT OF FR. 22 ON HECK
4. THE KEELS END AT 9" AFT OF FR. 37 ON RUDE & 6" AFT OF FR.37 ON HECK



GENERAL NOTES

1. THE THREE REFERENCE POINTS SHOWN HERE-ON SHALL BE USED TO POSITION THE SHIP IN RESPECT TO THE FLOODED DRYDOCK OR RAILWAY. THE CONTRACTOR IS NOT COMPELLED TO USE THIS METHOD IF HE HAS A SUITABLE C.O.T.R APPROVED SUBSTITUTE.

2. KEEL BLOCKS SHALL BE LEAST 48 INCHES HIGH AND LOCATED AS SHOWN. BILGE BLOCKS SHALL BE CUT TO SUIT HULL DEAD RISE. IT WILL BE THE CONTRACTOR RESPONSIBILITY TO CONSTRUCT ALL BLOCKS WITH SUFFICIENT CONTOUR TO PREVENT TOPPLING.

3. HEIGHTS OF ALL ITEMS ARE GIVEN TO THE BASE LINE BLOCKING WILL NOT BE PERMITTED UNDER TRANSDUCERS OR SEACHESTS.

4. KEEL BLOCKS SHALL BE INSTALLED ON 36" CENTERS AS SHOWN, EXCEPT BLOCKS AT FRAMES 1A, 30 & 40.

5. VESSELS WEIGHT CHARACTERISTICS
   - LIGHT SHIP 193.12 LONG TONS
   - FULL LOAD 823.58 LONG TONS

   *LIGHT SHIP INFORMATION BASED ON APPROVED INCLINING EXPERIMENT CONDUCTED ON JANUARY 11, 1985, BY GEORGE G. SHARP, INC.

6. ON EACH SHIP 18 NEW ZHC-23 ZINC ANODES ARE INSTALLED, CONFORMING TO MIL-A-18001, IN THE FOLLOWING LOCATIONS (NOTE THAT QUANTITIES ARE FOR ONE SHIP):
   - 6 EACH-BILGE KEELS (3 ON PORT, 3 ON STARBOARD)
   - 4 EACH-SKEG (2 ON EACH SIDE)
   - 4 EACH-STRUTS (1 ON EACH STRUT LEGS)
   - 2 EACH- SEA CHESTS (1 IN EACH SEA CHEST)

   a. EACH NEW ZINC ANODE IS INSTALLED USING TWO 316L STAINLESS STEEL STUDS WELDED TO THE SHIP'S STRUCTURE AND SECURED ON THE STUDS WITH 316L STAINLESS STEEL NUTS AND LOCKWASHERS.

ALT	ITEM	DESCRIPTION	BUILDER'S INITIALS	DATE
A	1	SHOWED KEEL & BILGE BLOCKS IN POSITION		
	2	ADDED KEEL & BILGE BLOCK DIMENSIONS		
	3	ADDED GEN. NOTES 1,2,3 & 4		
B		ADDED GEN. NOTE 5		D
C	1	ADDED: 3/8" THICK PLATE 36" EXTENSION ON SKEG		
	2	ADDED: 2ENT IN SHELL PLATE FRAMES 13-14 FOR PASSAGE FOR HECK ONLY	MHT	
	3	ADDED: BLUDDER MOD'S. & KEEL BLOCKS-FRAMES 18 & 48.	MHT	7/20/94
	4	ADDED- TRANSDUCERS FR. 18-1.5.		
D		ADDED- LOCATION OF BILGE KEELS & ZINC NOTE NO. 6	MHT	3/3/94
E	1	DELETED HECKS, ASV-93 FROM APPLICABILITY BLOCK.	SAM/GB	5/18/00
	2	INDICATED SEA SCANAR AS BLANKED OFF. REPLACED TRANSDUCER 7166 AT FR 13 PORT WITH TRANSDUCER TM 230-4. REPLACED TRANSDUCER 7166 AT FR 13 SHIP PORT WITH TRANSDUCER TM 230-4. (PREPARED BY TIDEWATER NAVAL ARCHITECTS, INC.)		C

A1 REMARKS: HECK ASV-93 NO LONGER MAINTAINED BY NOAA

A1	196 429 HECK ASV-93	JAKOBSON SHIP YD
	195 428 RUDE ASV-90	JAKOBSON SHIP YD
NO.	DATE	SHIPS NAME / BUILDING YARD

APPROVALS

	DATE
MAN. R.S.I.	
N.A.V.S.E.A.SEA.	12-07-92
N.A.V.S.E.A.	-------
N.A.V.S.E.A.	-------
N.A.V.S.E.A.	-------
JAKOBSON SHIPYARD	

NOT REQ'D.
NOT REQ'D.
NOT REQ'D.

U.S. DEPARTMENT OF COMMERCE
MARITIME ADMINISTRATION
CLASS IV HYDROGRAPHIC SURVEY SHIPS
DESIGNATED FOR
U.S. COAST & GEODETIC SURVEY

PLAN NO. 195-S7-1-1 ALT. E

DOCKING PLAN

BUILDER
JAKOBSON SHIPYARD, INC.
OYSTER BAY, N.Y.

DRAFTING DRAWING PREPARED BY
WILLIAM H. GARDNER
NAVAL ARCHITECT & MARINE ENGINEER
1811 LEXINGTON AVE. NEW YORK CITY, N.Y.

NO.	TITLE	DRAWN BY	DRAWING NO.
		DWG. NO.	SECTION NOS.
	REFERENCE PLANS	SCALE: 1/16"=1'-0"	DEPT. NOS.

NO.	REVISION	DRAWN BY	CHECKED BY	DATE
1	LINES DRAWING & BODY PLAN	S-S-D-1		
2	BUILDER'S MODEL - ANSYS & DRAWING SHEET & SCI-1	S-41-1-1		
3	DRAFTING STANDARD SYSTEM PUB'N	S-42-1-1		
4	RUDDERS, RUDDER STOCKS & CARRIERS	S-20-1-2		
5	FREE & PROPELLER NOZZLES - ANSYS & DRAWING SHEET & SCI-1	S-11-B-1		

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